

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Ohio**

Site Summary Level: **Miamisburg Environmental Management Project**

Project **OH-MB-02 / Main Hill Tritium**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0574**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Definition of Scope: Scopes of the project are:

- a. Complete safe shutdown of T, SW, Tritium contaminated portion of HH and R Buildings including removal of over 1,000 linear feet of tritiated gloveboxes, tritium contaminated oils, mercury and others (mixed waste), miles of piping system, uranium beds, molecular sieves, carbon/molecular traps, pumps, compressors and other equipment and portion of the tritiated duct work.
- b. Reduce categorization of nuclear facilities to radiological facilities.
- c. Complete T building decontamination and transition. SW and R Buildings will be transferred to Main Hill Rad project for demolition once safe shutdown is completed.

Technical Approach: a. Remove inventory

- b. Purge gloveboxes with equipment in place.
- c. Absorb contaminated pump oil in a solid organic for disposal (New technologies for disposal of tritiated oil will be investigated and adapted.)
- d. Remove gloveboxes and equipment. All equipment removed will be either treated as LLW to be shipped to Nevada Test Site (NTS) for permanent repository or to other DOE sites for reuse.
- e. Convert tritiated water into concrete for disposal at NTS.

Technology needs and opportunities will be determined and recorded as the project matures. Efforts will be made to incorporate technologies which prove to be cost and schedule effective

Project Status in FY 2006:

This project will be completed in FY 2004. T Building will be transferred/sold to the Miamisburg Mound Community Improvement corporation (MMCIC), a non-profit organization established to promote economic development and property transfer at the Mound Plant. SW and R Buildings will be demolished under the Main Hill Rad project and HH Building under the Test Fire Valley project with any potential contamination underneath the buildings cleaned up to meet the CERCLA regulations.

Post-2006 Project Scope:

The project will be completed. No post 2006 project scope is conceivable.

Project End State

The project (OH-MB-02) is comprised of four major activities: T Building- complete safe shutdown and decontamination, SW, HH and R Buildings - complete safe shutdown and removal systems associated with tritium operations. For shutdown activities, the project will remove gloveboxes, tritium contaminated oils, mercury and others (mixed waste), piping system, uranium beds, molecular sieves, carbon/molecular traps, pumps, compressors and other equipment and portion of the tritiated duct work from the buildings. The materials and equipment removed from the buildings will either be treated as low specific activity (LSA) wastes, mixed waste or to be transferred to other DOE sites for reuse. T Building will also be decontaminated to be suitable for release to industrial use which will require no further monitoring. SW and R Buildings will be transferred to Main Hill Rad project

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Project Description Narratives

(OH-MB-04) and HH Building to Test Fire Valley (OH-MB-07) for demolition.

Cost Baseline Comments:

This project includes the cost, scope and schedule from the validated baseline dated December 18, 1998 as detailed in the 21 volumes of the Exit Plan. The basis of estimate for the Standard Timberline Assemblies document utilized productivity factors from Richardson or Means Building Construction data. Bottoms up cost estimates were prepared for all activities planned for the project. Baseline documentation in the Exit Plan details all assumptions considered for each project.

Safety & Health Hazards:

The principal hazards in the Main Hill Tritium project are currently large quantities of tritium in the oxides form trapped in the process lines. This could result in overexposure to the workers, public and environment during the safe shutdown and decommissioning phases. Furthermore, SW Building, which was in operations since late 1940s, contains aging equipment and infrastructure. There are safety concerns associated with the aging process and equipment which is used for tritium operations. There are also potential holdup of tritium in ventilation, gloveboxes, fume hoods and other ancillary equipment. Significant quantities of tritium could be released which could result in exposure of workers, public and environment. A release occurred in October 1996 from SW Building caused some concern from the local community. As the project progresses, the workers may encounter additional hazards associated with tritium exposure as well as normal occupational hazards related to decommissioning activities. These hazards will persist throughout the entire project. Hazards from other radioisotopes include Octinium, plutonium, thorium, radon, and uranium. Significant standard industrial hazards exist.

Safety & Health Work Performance:

The project utilizes ES&H resources provided as direct support to the project including industrial safety & health, radiological controls and environmental safeguards & compliance to accomplish the work safely. The necessary resources are provided through the authorization basis, the site ES&H requirements and integrated safety management system. The project provides the cost center through the workbreak down structure to ensure adequate technical supports in the ES&H areas are received. The resource requirements are loaded in the project for each fiscal year.

PBS Comments:

The project is a highly visible project with the local government, regulators and stakeholders. Activities which accomplish completion of tritium operations and the safe shutdown of T, SW and R Buildings are on the Exit Plan critical path.

Baseline Validation Narrative:

Operations are conducted under a validated baseline for cost, scope and schedule. Validation was conducted by the Department of Energy and Army Corps of Engineers and documented in 21 volumes entitled Exit Plan.

General PBS Information

Project Validated?	Yes	Date Validated:	12/18/1998
Has Headquarters reviewed and approved project?	Yes		

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General PBS Information

Date Project was Added: 12/1/1997
 Baseline Submission Date: 7/8/1999
 FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	Y	N	N	N	Y	N	N

Project Identification Information

DOE Project Manager: Sam C. Cheng
 DOE Project Manager Phone Number: 937-865-4778
 DOE Project Manager Fax Number: 937-865-4489
 DOE Project Manager e-mail address: sam.cheng@ohio.doe.gov
 Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
PBS Baseline (current year dollars)	193,096	0	193,096	97	97	9,894	9,894	32,965	33,876	38,870	41,604	24,542	11,248	0	0
PBS Baseline (constant 1999 dollars)	182,990	0	182,990	97	97	9,894	9,894	32,965	32,985	36,853	38,371	22,018	9,807	0	0
PBS EM Baseline (current year dollars)	193,096	0	193,096	97	97	9,894	9,894	32,965	33,876	38,870	41,604	24,542	11,248	0	0
PBS EM Baseline (constant 1999 dollars)	182,990	0	182,990	97	97	9,894	9,894	32,965	32,985	36,853	38,371	22,018	9,807	0	0

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	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.70%	2.70%	2.80%	2.80%	2.90%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 4/1/2001

Current Projected End Date of Project: 7/15/2004

Explanation of Project Completion Date Difference (if applicable):

The current completion date is scheduled for FY 2004 based upon the rebaseline which was validated in December, 1998.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	55,447	Actual 1997 Cost:	97	Actual 1998 Cost:	9,894
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Project Reconciliation

Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	45,456	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):	1,227
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	46,683		

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):	126,319	\$126,319k due to rebaseline in Dec. 1998 and allocated costs previously in MB-10.
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	173,002	
Additional Amount to Reconcile (+):	-3	(\$3K) due to FY 1997 Actual Costs escalation error on the IDMS reconciliation tab.
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	172,999	

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
ANNUAL SCHEDULE DELIVERY	OHMB-02-02		3/31/1999	3/31/1999			Y				
ANNUAL SCHEDULE DELIVERY	OHMB-02-03		9/30/2000	9/30/2000			Y				
ANNUAL SCHEDULE DELIVERY	OHMB-02-04		9/30/2001	9/30/2001			Y				
ANNUAL SCHEDULE DELIVERY	OHMB-02-05		9/30/2002	9/30/2002			Y				
ANNUAL SCHEDULE DELIVERY	OHMB-02-06		9/30/2003	9/30/2003			Y				
COMPLETE SOLIDIFICATION OF TRITIATED WATER	OHMB-02-07		2/28/1999								
T-BUILDING ON-SCENE COORDINATOR (OSC) REPORT	OHMB-02-01		7/14/2004	9/30/2004			Y				

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Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
TRANSFER SW BUILDING TO MB-04			9/10/2002								
TRANSFER R BUILDING TO MB-04			10/10/2002								
TRANSFER HH BUILDING TO MB-07			10/5/2000								
Project Start			10/1/1996								
Project Complete			7/15/2004								
Project Complete			9/28/2000								
Project Complete			9/28/2000								
Remove Waste, R Bldg			4/21/1999								
Equipment Disposition, R Bldg			1/10/2002								
Equipment Disposition, T Bldg Unified			10/28/2002								
Equipment Disposition, T Bldg Area 3			3/26/2003								
Remediate Potential Release Sites in T Bldg			11/20/2003								
Perform Supplemental Building Characterization (T2&3), T Bldg			12/8/2003								
Characterize Foundation and Area Soils, T Bldg			12/22/2003								
Perform Area Decon, T Bldg			2/17/2004								
Verification, T Bldg			5/25/2004								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
ANNUAL SCHEDULE DELIVERY	OHMB-02-02										
ANNUAL SCHEDULE DELIVERY	OHMB-02-03										

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ANNUAL SCHEDULE DELIVERY	OHMB-02-04										
ANNUAL SCHEDULE DELIVERY	OHMB-02-05										
ANNUAL SCHEDULE DELIVERY	OHMB-02-06										
COMPLETE SOLIDIFICATION OF TRITIATED WATER	OHMB-02-07										
T-BUILDING ON-SCENE COORDINATOR (OSC) REPORT	OHMB-02-01										
TRANSFER SW BUILDING TO MB-04											
TRANSFER R BUILDING TO MB-04											
TRANSFER HH BUILDING TO MB-07											
Project Start				Y							
Project Complete					Y	Y					
Project Complete					Y					Y	
Project Complete					Y					Y	
Remove Waste, R Bldg			Y				1	1	1		
Equipment Disposition, R Bldg			Y				1	1	1		
Equipment Disposition, T Bldg Unified			Y				1	1	1		
Equipment Disposition, T Bldg Area 3			Y				1	1	1		

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description			
Remediate Potential Release Sites in T Bldg			Y				1	1	1					
Perform Supplemental Building Characterization (T2&3), T Bldg			Y				1	1	1					
Characterize Foundation and Area Soils, T Bldg			Y				1	1	1					
Perform Area Decon, T Bldg			Y				1	1	1					
Verification, T Bldg			Y				1	1	1					

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
Fac.														
Decom.- Assess.	NF	1.00	0.00	1.00										1.00
Fac.														
Decom- Cleanup	NF	1.00	0.00	1.00										1.00
Fac.														
Deact. During Per.	NF	4.00	0.00	4.00								3.00		1.00
Tech.														
Deployed	Ntd	4.00	0.00	4.00					4.00					
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	
Fac.														
Decom.- Assess.	NF	1.00												

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Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
Fac.													
Decom- Cleanup	NF	1.00											
Fac.													
Deact. During Per.	NF	1.00											
Tech.													
Deployed	Ntd												
Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total			
Fac.													
Decom.- Assess.	NF									1.00			
Fac.													
Decom- Cleanup	NF									1.00			
Fac.													
Deact. During Per.	NF									4.00			
Tech.													
Deployed	Ntd								4.00	4.00			

Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
MEMP	0201		BD T \ TECHNICAL BUILDING FOR TRITIUM PROCESSING	Buildings & Equipment/Laboratory	Nuclear Facility, Category 3	2004	2004		2004	2004		2004	2004		1995	N		Y

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Facility Deactivation

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
MEMP	0201		BD T \ TECHNICAL BUILDING FOR TRITIUM PROCESSING	Buildings & Equipment/Laboratory	Nuclear Facility, Category 3	2004	2004		2004	2004		2004	2004		1995	N		Y

Technology Needs

Site Need Code: OH-M901

Site Need Name: Improved Facility Survey Techniques

Focus Area Work Package ID: DD-01

Focus Area Work Package: D&D of Tritium Contaminated Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Risk Reduction

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Three Dimensional, Integrated Characterization and Archiving System (3D-ICAS)

Gamma Ray Imaging System

Mobile Automated Characterization System

Gamma Cam (TM) Radiation Imaging System

Field Transportable Beta Spectrometer

Surface Contamination Monitor and Survey Information Management System (SCM/SIMS)

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

Ground Based Laser Induced Fluorescence Imaging

In Situ Object Counting System

Cogema 3-D Gamma Imaging

Direct Reading Tritium Monitor

Portable Scintillation Counter

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Technology Needs

Drum Bubbler for Tritium

Related CCP Milestones

Related Waste Streams

Agree?

Change?

00149: LLW-2e - Tritium Operations Debris

Y

N

00135: LLW-2d - Test Fire Facilities Debris

Y

N

00133: LLW-2c - SM/PP Hill Facilities Debris

Y

N

00129: LLW-2b - Main Hill Tritium Debris

Y

N

00131: LLW-2a - Main Hill Rad Facilities Debris

Y

N

Site Need Code: OH-M902

Site Need Name: Decontamination Techniques for Tritiated Gloveboxes

Focus Area Work Package ID: DD-01

Focus Area Work Package: D&D of Tritium Contaminated Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Risk Reduction

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Laser Decontamination and Recycle of Metals

Strippable Coatings and Fixatives

Related CCP Milestones

Related Waste Streams

Agree?

Change?

00149: LLW-2e - Tritium Operations Debris

Y

N

00129: LLW-2b - Main Hill Tritium Debris

Y

N

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Technology Needs

Site Need Code: OH-M903

Site Need Name: Method for Controlling Off-Gassing and Removable Contamination from Tritium Piping

Focus Area Work Package ID: DD-01

Focus Area Work Package: D&D of Tritium Contaminated Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Risk Reduction

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Strippable Coatings and Fixatives

Related CCP Milestones

Related Waste Streams

Agree?

Change?

00149: LLW-2e - Tritium Operations Debris

Y

N

00129: LLW-2b - Main Hill Tritium Debris

Y

N

Site Need Code: OH-M905

Site Need Name: Treatment of Tritiated Pump Oils and Mercury

Focus Area Work Package ID: DD-01

Focus Area Work Package: D&D of Tritium Contaminated Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Risk Reduction

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Water Solidification

Oil Solidification

Related CCP Milestones

Related Waste Streams

Agree?

Change?

00149: LLW-2e - Tritium Operations Debris

Y

N

00129: LLW-2b - Main Hill Tritium Debris

Y

N

00144: HAZ-1c - Main Hill Tritium Haz. Mtl.

Y

N

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Technology Needs

Site Need Code: OH-M909

Site Need Name: Automated Dust Suppression System

Focus Area Work Package ID: DD-01

Focus Area Work Package: D&D of Tritium Contaminated Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Risk Reduction

Technologies

Concrete Dust Supression System

Cost Savings (in thousands of dollars)

Range of Estimate

Related CCP Milestones

Related Waste Streams

Agree?

Change?

00149: LLW-2e - Tritium Operations Debris

Y

N

00135: LLW-2d - Test Fire Facilities Debris

Y

N

00133: LLW-2c - SM/PP Hill Facilities Debris

Y

N

00129: LLW-2b - Main Hill Tritium Debris

Y

N

00131: LLW-2a - Main Hill Rad Facilities Debris

Y

N

Technology Deployments

Deployment Year

Deployment Status

Planned

Forecast

Actual Date

Technology Name: Lumni-Scint Portable Liquid Scintillation Counter

Deployment Commitment 1999

Technology Name: Waterworks Crystal Super-absorbent Polymer Water Solidification

Potential Deployment 1999

Technology Name: Overhoff Surface Monitoring System

Deployment Commitment 1999

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Technology Deployments

<u>Deployment Status</u>	Deployment Year		
	<u>Planned</u>	<u>Forecast</u>	<u>Actual Date</u>
Technology Name:	NOCHAR Tritiated Oil Solidification (Petro Bond System)		
Potential Deployment	1999		